Review Test Submission: Characterization of Distributed Systems

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Subject	Distributed Systems
Test	Characterization of Distributed Systems
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Status	Completed
Attempt Score	100 out of 100 points
Time Elapsed	1 minute
Results Displayed	All Answers

Question 1

10 out of 10 points

Failure Transparency is best described as:

Answers:
a. The continuous occurrence of a particular failure.
b. The concealment of failures.
c. Not permitting any failures to occur.
d. The hiding of the location of the failure.
e. The hiding of the failure type.

Question 2

10 out of 10 points

What is meant by access transparency?

Answers:
a. Remote resources are accessed using location independent names.
b. A resource will handle all requests equally independent of the location of the client.
c. Clients can complete their tasks and access resources despite the failure of other components.
d. Local and remote resources are accessed using the same operations.
e. A replicated resource is accessed exactly as if it was a single object.

Question 3

10 out of 10 points

Which of the following is considered a Byzantine failure?

Answers:
a. The system detects a communications failure.
b. A message is read from an incoming buffer after being read from a communications channel.
c. A process begins to execute arbitrary steps.
d. A message is placed in an outgoing buffer but is never placed in an incoming buffer.
e. A process halts and its halted state is detectable by other processes.

Question 4

10 out of 10 points

Which of the following is most likely a scalability challenge in the design of distributed systems?

Answers:
a. Avoiding performance bottlenecks.
b. Providing a uniform communication mechanism.
c. Concealing the distribution aspects from users and applications.
d. All of the above.
e. Both b) and c).

Question 5

10 out of 10 points

Which of the following is not a challenge normally associated with the construction of a distributed system?

Answers:
a. Scalability
b. Security
c. Openness.
d. Heterogeneity of components.
e. Processor Speed.

Question 6

10 out of 10 points

Which one of the following is the most likely to not apply to Middleware?

Answers:
a. It provides a programming abstraction.
b. It is language dependent.
c. It masks the heterogeneity of the underlying networks.

d. It provides access transparency.

e. It can provide distributed file services.

Question 7

10 out of 10 points

Which one of the following statements is most likely not true?

Answers:

a. Failure Handling can benefit from maintaining log files.

b. Scalability is not concerned with response time.

c.
Openness does not require implementation details of the server to be made public.

d. Heterogeneity is concerned with differences in operating systems.

e. Security includes understanding the impact of software bugs.

Question 8

10 out of 10 points

Which of the following is most likely not an advantage of distributed systems?

Answers:

a. Resources can be added incrementally.

b.
If designed properly, they scale well with respect to the size of the underlying network.

c.
They make it easier to integrate different applications running on different computers into a single system.

d.
Redundant components reduce the impact of hardware and software failures on users.

e. Simpler and easier to develop software.

Question 9

10 out of 10 points

Which of the following is not a characteristic of distributed systems?

Answers:

a. There is no single global notion of time.

b. Programs can execute concurrently.

c. System components can fail independently.

d.
The capacity of the system to handle shared resources can be increased by adding more resources to the network.

e. Communication is reliable and secure.

Question 10

10 out of 10 points

Which of the following is not a type of transparency related to distributed systems?

Answers:
a. Replication.
b. Application.
c. Migration.
d. Failure.
e. All of the above are transparencies related to distributed systems.

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